

Case 2885***Ischyryus* Lacordaire, 1842, *Lybas* Lacordaire, 1842, *Mycotretus* Lacordaire, 1842 and *Megischyrus* Crotch, 1873 (Insecta, Coleoptera): proposed conservation**

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Abstract. The purpose of this application is to conserve the names of the American beetle genera *Ischyryus* Lacordaire, 1842, *Lybas* Lacordaire, 1842, *Mycotretus* Lacordaire, 1842 and *Megischyrus* Crotch, 1873 in their current usage. *Ischyryus*, *Lybas* and *Mycotretus* were first used as available names by Dejean (1836), but they have long been used in the sense of Lacordaire (1842) and attributed to that authorship. Crotch (1873, 1876) designated *Erotylus undatus* Olivier, 1792 as type species of his new nominal genus *Megischyrus*; *Erotylus quadripunctatus* Olivier, 1792 as type species of *Ischyryus* (sensu Lacordaire); and *Lybas normalis* Lacordaire, 1842 as type species of *Lybas* (sensu Lacordaire). Boyle (1956) designated *Erotylus lesueuri* Chevrolat, 1835 as type species of *Mycotretus* (sensu Lacordaire). Crotch's (1873) nomenclature for *Ischyryus* and *Megischyrus*, and Lacordaire's (1842) nomenclature for *Mycotretus* and *Lybas*, are those currently used and it is proposed that they be adopted.

1. The generic names *Ischyryus* (p. 428), *Lybas* (p. 429) and *Mycotretus* (p. 428) were first used by Dejean (1836) in fascicle 5 of the second edition of his catalog. He also used the names in the third edition (1837, pp. 452-453) (see Madge, 1988, for dates of publication). In both instances he attributed authorship of the name *Ischyryus* to Chevrolat, listing *Erotylus undatus* Olivier, 1792 (p. 434) as the first of 17 included species. Dejean (1836) listed a number of species, including *Erotylus quadripunctatus* Olivier, 1792 (p. 437), under the new genus *Mycotretus* (p. 428), which he also attributed to Chevrolat. He listed *Erotylus lesueuri* Chevrolat, 1835 (no. 175) and '*Lybas normalis* Lacordaire' (at that time a nomen nudum) under the new genus *Lybas*, which he attributed to Chevrolat. Dejean's catalogs did not include any description or diagnosis for the genera or species; nevertheless, the names *Ischyryus*, *Lybas* and *Mycotretus* were made available under Article 12b(5) of the Code by inclusion of previously published nominal species in these genera.

2. In his monograph of the EROTYLIDAE, Lacordaire (1842) described *Ischyryus* (p. 89), *Lybas* (p. 228) and *Mycotretus* (p. 132); like Dejean, he attributed their authorship to Chevrolat. Lacordaire included in *Ischyryus* many of the species which Dejean had listed under *Mycotretus* and included in *Mycotretus* all the species with available names which Dejean had listed under *Lybas*, explaining that they should be

placed in these genera on account of their morphology. Lacordaire did not designate type species for these genera. He (1842, p. 235) described *Lybas normalis*, which had been previously attributed to him in the Dejean catalogs, and included other species in *Lybas*. Lacordaire also proposed two divisions of *Ischyryus*; the first division contained the species listed in the Dejean catalogs as *Ischyryus*, while the second division contained many species which Dejean had listed under *Mycotretus*, including *Erotylus quadripunctatus* Olivier, 1792 (p. 437).

3. Crotch (1873, pp. 143–144) raised Lacordaire's divisions of *Ischyryus* to generic rank. He named the first division *Megischyryus* (p. 143) and designated *Erotylus undatus* Olivier, 1792 (p. 434) as the type species. The second division he maintained as *Ischyryus* and (p. 144) designated *Erotylus quadripunctatus* as the type species. This designation for *Ischyryus* is invalid under the Code since *E. quadripunctatus* was not included in the genus by Dejean (see para. 1 above). However, Crotch gave Lacordaire (1842) as the describer of *Ischyryus*, although he remarked that the name was 'first indicated by Chevrolat in 1836', referring to the Dejean Catalog. Three years later, Crotch (1876, pp. 422–433) revised these genera, moving into other genera some of the species that he had in 1873 included in *Ischyryus* (sensu Lacordaire's second 'division'); he restated his type designations for *Megischyryus* and *Ischyryus*. Crotch (p. 471) designated *Lybas normalis*, originally listed under *Lybas* and since 1842 an available name (see paras. 1 and 2 above), as the type species of *Lybas* Dejean, 1836. This designation is invalid because *L. normalis* was not available at the first usage of the name *Lybas* (see para. 1 above).

4. Crotch's classification for *Ischyryus* and *Megischyryus* and Lacordaire's classification for *Mycotretus* and *Lybas* have been used in all subsequent taxonomic papers and catalogs (for example, Gemminger & Harold, 1876; Gorham, 1883; Kuhn, 1911; Bruch, 1914; Blatchley, 1917; Schenkling, 1919; Leng, 1920; Schaeffer, 1931; Mader, 1938; Blackwelder, 1945; Guérin, 1949; Boyle, 1954; Delkeskamp, 1957; Dillon & Dillon, 1961; Arnett, 1963).

5. Boyle (1956, p. 137), realizing that no type had been designated, selected *Erotylus lesueuri* Chevrolat, 1835 as the type species of *Mycotretus*, attributing the genus to Lacordaire (1842). He noted that the type species was figured in color by Gorham (1887–1899). Under the Code, this designation is invalid for *Mycotretus* Dejean, 1836 since *E. lesueuri* was not included in the original use (see para. 1 above); however, it would be valid for *Mycotretus* if authorship of that name were attributed to Lacordaire (1842).

6. Alvarenga (1965, pp. 79, 85–86) recognized that Crotch had overlooked or ignored the Dejean catalog in establishing the name *Megischyryus* and in designation of the type species of *Ischyryus*. Alvarenga noted that *Megischyryus* Crotch, 1873 (type species *Erotylus undatus*) had the same included species as, and therefore was a junior subjective synonym of, *Ischyryus* Dejean, 1836, which was made available by inclusion of these species; he gave *Erotylus undatus* as the type species of *Ischyryus* 'Chevrolat' (recte Dejean), and this valid type designation makes *Megischyryus* a junior objective synonym of *Ischyryus*. Alvarenga (p. 86) proposed the name *Micrischyryus* as a replacement for *Ischyryus* (sensu Crotch) and designated *Erotylus quadripunctatus* as its type species. The name *Micrischyryus* has never been used other than by its author (Alvarenga, 1977, p. 105) in renaming a homonym within *Ischyryus* (sensu Crotch), nor has Alvarenga's formally correct treatment of the name *Ischyryus* been followed.

In contrast, *Ischyryus* is still used extensively in Crotch's sense (see para. 3 above), as typified by *Erotylus quadripunctatus*, and it is usually attributed to Lacordaire (1842) (for example, Kirk, 1969; Kirk & Balsbaugh, 1975; White, 1983; Arnett, 1985; Skelley, Goodrich & Leschen, 1991; Lawrence, 1991).

7. Alvarenga (1965, pp. 80–81, 85, 87) also realized that Dejean's catalogs had been overlooked or ignored in the designation of the type species of *Lybas* by Crotch (1876) and of *Mycotretus* by Boyle (1956). Alvarenga (p. 85) selected *Erotylus lesueuri* as the type species of *Lybas* Dejean, a species included in that genus in 1836. Alvarenga (p. 81) proposed the name *Apolybas* as a replacement for *Lybas* (sensu Lacordaire, 1842) and designated *Lybas normalis* as its type species. Alvarenga (p. 87) gave *Erotylus ornatus* Duponchel, 1824 (p. 49) as the type species of *Mycotretus* 'Chevrolat' (recte Dejean), citing a non-existing designation by Gorham (1888, p. 47); following Gemminger & Harold (1876), Gorham (1888) had attributed *Mycotretus* to Lacordaire but did not designate or indicate *E. ornatus* as the type species as Alvarenga stated. Despite the erroneous citation Alvarenga's designation of *E. ornatus* as the type species of *Mycotretus* Dejean is valid, under Article 69a(iv) of the Code. Alvarenga's replacement of *Lybas* (sensu Lacordaire) by *Apolybas* has never been followed, and his typification of *Mycotretus* has been used only twice since 1965 in the descriptions of new species by himself (Alvarenga, 1983, 1989).

8. To avoid confusion it is important to maintain in their current usage (see para. 4 above) the names *Ischyryus*, *Lybas*, *Megischyryus* and *Mycotretus* as defined by Lacordaire (1842) and Crotch (1873), with the attributions of authorship as indicated by Gemminger & Harold (1876). Crotch's acceptance of Lacordaire as the author of *Ischyryus* and Gemminger & Harold's acceptance of Lacordaire as the author of *Lybas* and *Mycotretus* were not invalid at that time, and it would be in the interest of stability to maintain these attributions. We therefore propose that *Ischyryus*, *Lybas* and *Mycotretus* be attributed to Lacordaire (1842) by suppressing previous uses of these names, and that the type species designations for these genera by Crotch (1873, 1876) and Boyle (1956) be accepted.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the following generic names for the purposes of both the Principle of Priority and the Principle of Homonymy:
 - (a) *Ischyryus* Dejean, 1836, and all uses of the name *Ischyryus* prior to the publication of *Ischyryus* Lacordaire, 1842;
 - (b) *Lybas* Dejean, 1836, and all uses of the name *Lybas* prior to the publication of *Lybas* Lacordaire, 1842;
 - (c) *Mycotretus* Dejean, 1836, and all uses of the name *Mycotretus* prior to the publication of *Mycotretus* Lacordaire, 1842;
- (2) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Ischyryus* Lacordaire, 1842 (gender: masculine), type species by subsequent designation by Crotch (1873) *Erotylus quadripunctatus* Olivier, 1792;
 - (b) *Lybas* Lacordaire, 1842 (gender: masculine), type species by subsequent designation by Crotch (1876) *Lybas normalis* Lacordaire, 1842;
 - (c) *Megischyryus* Crotch, 1873 (gender: masculine), type species by original designation *Erotylus undatus* Olivier, 1792;

- (d) *Mycotretus* Lacordaire, 1842 (gender: masculine), type species by subsequent designation by Boyle (1956) *Erotylus lesueuri* Chevrolat, 1835;
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *quadripunctatus* Olivier, 1792, as published in the binomen *Erotylus quadripunctatus* (specific name of the type species of *Ischyryrus* Lacordaire, 1842);
 - (b) *normalis* Lacordaire, 1842, as published in the binomen *Lybas normalis* (specific name of the type species of *Lybas* Lacordaire, 1842);
 - (c) *undatus* Olivier, 1792, as published in the binomen *Erotylus undatus* (specific name of the type species of *Megischyryrus* Crotch, 1873);
 - (d) *lesueuri* Chevrolat, 1835, as published in the binomen *Erotylus lesueuri* (specific name of the type species of *Mycotretus* Lacordaire, 1842);
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the following names:
 - (a) *Apolybas* Alvarenga, 1965 (a junior objective synonym of *Lybas* Lacordaire, 1842);
 - (b) *Ischyryrus* Dejean, 1836, as suppressed in (1)(a) above;
 - (c) *Lybas* Dejean, 1836, as suppressed in (1)(b) above;
 - (d) *Micrischyryrus* Alvarenga, 1965 (a junior objective synonym of *Ischyryrus* Lacordaire, 1842);
 - (e) *Mycotretus* Dejean, 1836, as suppressed in (1)(c) above.

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